

Associate of Science Degree

Accounting or Business Administration
Agriculture Business
Agriculture Communication
Agriculture Education
Agroecology
Animal Science
Range Management

Associate of Applied Science Degree

Business

Business Technology – Administrative Assistant Option
Business Technology – Help Desk Specialist Option
Business Technology – Network Technician Option
Equine Business Management
Equine Riding and Training
Farm and Ranch Management
Farrier Business Management
Production Agriculture
Travel and Tourism
Veterinary Assistant
Welding Technology

Northwest College Comprehensive Skills Certificate

Business Technology – General Office/Clerical Skills Production Agriculture Robotics Technology Welding Technology

Northwest College Skills Certificate

Equine Care and Basic Training Help Desk GMAW Welding GTAW Welding Outdoor Guide Skills Word Processing

Agriculture

Agriculture, in its broadest definition, is the nation's largest industry. Northwest College is located in a strong productive agricultural and agribusiness region. This provides both the obligation and the opportunity to offer technologically advanced and theoretically sound career preparation. The explosion of knowledge in production efficiency enhancement has provided this nation the luxury of greater commodity production from constantly shrinking numbers of producers. To maintain this trend, we need more knowledgeable producers served by an increasing number of agriculture support services.

The richly interdisciplinary agriculture curriculum offers broad career preparation in fields related to animal agriculture, agronomy and agricultural economics. Laboratory work is stressed in all programs to enhance academic training. Students develop critical thinking and problem solving skills through the practical application of science and business management principles to farming and ranching situations. Direct experience with cattle, sheep, swine, and horses is provided at the Paul Stock Agricultural Pavilion and the Meat Processing Center. Feed and soil analysis combine experiences on College farm ground, in a modern laboratory, and greenhouse. Case studies enhance the practical experiences of record keeping and analysis in modern computer laboratories.

Students considering a career in agriculture should prepare with a sound science and math foundation in high school. Serious assessment of career goals with an advisor will assist the student in proper selection of an appropriate program of study.

Agriculture Business

This program prepares students for careers in agribusiness or for transfer into agricultural business, agricultural economics and farm and ranch management programs. The field involves the application of business and economic principles to farming and ranching enterprises and related industries. Employment possibilities are available in businesses which process and market

agricultural products, and those which sell products and services to producers. Additional opportunities exist in the operation of farms and ranches or in lending institutions. Students must successfully complete core courses with a "C-" or better to meet program requirements. Students planning to transfer to a four-year program may need to have additional hours beyond the program requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

ASSOCIATE OF SCIENCE AGRICULTURE BUSINESS

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation	on
Requirements on pages 30-38	31-37

Six credits of General Education may be fulfilled by taking Core Courses or Core Electives.

Core Courses

Number and Title C	redits
ACCT 1050—Practical Accounting	3
or	
ACCT 2010—Principles of Accounting	I 4
AGEC 1010—Agricultural Economics I	3
AGEC 2020—Farm and Ranch Business	
Management (Capstone Course)	4
AGRI 1010—Computers in Agriculture	2
TOTAL	12-13

Core Electives

Students must take three courses from the following list of approved courses.

Credits

Number and Title

AECL 1000—Agroecology4
AECL 2010—Ecological Web: Soil4
AECL 2395—Plant Science Research Methods
(Capstone Course)2
AGEC 1020—Agricultural Economics II 3
AGEC 2010—Farm/Ranch Business
Records3
AGEC 2300—Agricultural Marketing 3
ANSC 1022—Animal Science I 4
ANSC 1024—Animal Science II4
TOTAL 8-12

consultation with advisor11-20

General Electives selected in

Transfer and General Electives

Number and Title	Credits
BIOL 1000—Principles of Biology	4
MATH 2350—Business Calculus	5
STAT 2010—Statistical Concepts for	
Business	4
STAT 2050—Fundamentals of Statis	tics 4

MINIMUM CREDITS FOR DEGREE = 64

Agriculture Communication

Career opportunities include work in agriculture-related publications, radio, and television. Transfer options are available regionally and nationally. In order to achieve an AS in Agriculture Communication, students must successfully complete core courses with a "C-" or better to meet program requirements. Students planning to transfer to a four-year program may need to have additional hours beyond the program requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

ASSOCIATE OF SCIENCE AGRICULTURE COMMUNICATION

General Education Requirements

Number and Title	Credits
Students should refer to the Graduati	on
Requirements on pages 30-38	31-37

Core Courses

Number and Title	Credits
AGRI 2385—Agriculture Communic	ation/
Leadership	2
ANSC 1022—Animal Science I	4
CO/M 2485—Sophomore Seminar:	
Communication (Capstone Course	e)3
JOUR 1100—Newswriting and Report	ting I 3
JOUR 1240—Agriculture Communic	ations
Practicum	2
JOUR 2000—Broadcast Production	3
or	
JOUR 2140—News Editing and Laye	out3
TO	OTAL 17

Core Electives

Students must take 6-7 credits from the following list of approved courses.

Number and Title	Credits
AECL 2010—Ecological Web: Soil	4
AGEC 2300—Agricultural Marketing	g3
AGRI 2390—Agriculture Literacy/Lead	lership 2
JOUR 1010—Publications Production	1-2
JOUR 2000—Newswriting and Report	ing II.3
PHTO 1610—Introduction to Photogram	raphy3
CROP 2200—Forage Crop Science	3

Transfer and General Electives

The following courses are recommended as electives for General Education Requirements and Transfer programs.

Number and Title	Credits
AECL 1000—Agroecology	4
AECL 2395—Plant Science Research I	Methods
(Capstone Course)	2
AGEC 1010—Agricultural Economics	i I 3
BIOL 2400—Ecology	3
CO/M 1010—Public Speaking	3
JOUR 1000—Introduction to Mass M	edia3
RGMG 1000—Introduction to Range	
Management	1
RGMG 2000—Principles of Range	
Management	3
ZOO 2450—Wildlife Management	3

MINIMUM CREDITS FOR DEGREE = 64

Agriculture Education

This program will prepare students to transfer to a university program of agriculture education/extension. In order to achieve an AS in Agriculture Education, students must successfully complete core courses with a "C-" or better to meet program requirements. Upon transfer, graduates will select a more specific program of study for a bachelor's degree which will prepare them for teaching at the secondary level or working in the extension service. Agriculture Education majors are also sought after by many industry organizations because of the breadth of the training. Currently there is a national shortage of agriculture education teachers. Students planning to transfer to a four-year program may need to have additional hours beyond the program requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

ASSOCIATE OF SCIENCE AGRICULTURE EDUCATION

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation	n
Requirements on pages 30-38	31-37

Three credits of General Education may be fulfilled by taking Core Courses.

Core Courses

Number and Title Credits
AECL 1000—Agroecology4
AGRI 2385—Agriculture Communication/
Leadership2
AGRI 2390—Agriculture Literacy/Leadership2
ANSC 1022—Animal Science I 4
EDFD 2020—Foundations of Education 3
EDFD 2100—Educational Psychology 3
EDUC 2100—Practicum in Teaching
(Capstone Course)2
PSYC 1200—Human Development 3
WELD 1700—General Welding3
TOTAL 26

Transfer and General Electives

The following courses are recommended as electives for General Education Requirements and Transfer programs.

Number and Title	Credits
AECL 2010—Ecological Web: Soil	4
AGEC 1010—Agricultural Economic	s I 3
AGEC 2010—Farm and Ranch Busin	ness
Records	3
AGRI 1010—Computers in Agricultu	ıre 2
ANSC 1024—Animal Science II	4
ANSC 1210—Livestock Judging I	2
ANSC 2020—Feeds and Feeding	4
ANSC 2430—Comparative Anatomy	and
Physiology	4
BIOL 1000—Principles of Biology	4
CO/M 1010—Public Speaking	3
CROP 2200—Forage Crop Science	3
FDSC 2060—Fresh Meat Processing	3
HLED 1225—Standard First Aid and	CPR2
PSYC 1000—General Psychology	4
RGMG 2000—Principles of Range	
Management	3
RGMG 2490—Rangeland Plant	
Identification	2
STAT 2050—Fundamentals of Statist	rics 4

MINIMUM CREDITS FOR DEGREE = 64

Agroecology

This program is designed for students interested in the application and integration of biological and physical sciences to sustainable crop production. Students

transfer into crop science or agronomy programs for careers in seed, fertilizer, and chemical industries, or in crop production. Transfer into a soil science or ecology curriculum can lead to land management and natural resource management positions. Students must successfully complete core courses with a "C-" or better to meet program requirements. Students planning to transfer to a four-year program may need to have additional hours beyond the program requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

ASSOCIATE OF SCIENCE AGROECOLOGY

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation	n
Requirements on pages 30-38	31-37

Eleven credits of General Education may be fulfilled by taking Core Courses.

Core Courses

Number and Title	Credits
AECL 1000—Agroecology	4
AECL 2010—Ecological Web: Soil	4
AECL 2395—Plant Science Research	Methods
(Capstone Course)	2
AGEC 1010—Agricultural Economic	cs I 3
TO	OTAL 13

Core Electives

Students must take two courses from the following list of approved courses.

Number and Title	Credits
AGRI 1010—Computers in Agricu	lture2
CROP 2200—Forage Crop Science	3
ENTO 1001—Insect Biology	4
T	OTAL 5-7

Transfer and General Electives

consultation with advisor7-15

General Electives selected in

Number and Title	Credits
BIOL 1010—General Biology I	4
BIOL 2400—Ecology	3
CHEM 1000—Introduction to Chem	nistry 5
CHEM 2300—Introduction to Organ	nic
Chemistry	4
STAT 2050—Fundamentals of Statis	tics3

MINIMUM CREDITS FOR DEGREE = 64

Animal Science

The Animal Science curriculum provides a foundation in biological and physical sciences, augmented by applications to production in western environments. It prepares students to transfer into an advanced degree program in any of several options within animal science. Graduates find employment in feed and health product companies, livestock management and marketing, breed associations, government agencies, or the meat industry. Students must successfully complete core courses with a "C-" or better to meet program requirements. Students planning to transfer to a fouryear program may need to have additional hours beyond the program requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

ASSOCIATE OF SCIENCE ANIMAL SCIENCE

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation	n
Requirements on pages 30-38	31-37

Six credits of General Education may be fulfilled by taking Core Courses or Core Electives.

Core Courses

Number and Title	Credits
AGEC 1010—Agricultural Economic	s I 3
AGEC 2020—Farm/Ranch Business	
Management (Capstone Course)	4
ANSC 1022—Animal Science I	4
ANSC 1024—Animal Science II	4
TO	TAL 15

Core Electives

Students must take at least five credits from the following list.

N

Tumber and Title C	redits
AGEC 1020—Agricultural Economics I	I 3
AGRI 1010—Computers in Agriculture.	
ANSC 1210—Livestock Judging I	2
ANSC 2020—Feeds and Feeding	4
ANSC 2430—Comparative Anatomy/	
Physiology of Domestic Animals	4
FDSC 2060—Fresh Meat Processing	3
RGMG 2000—Principles of Range	
Management	3
TOTA	I. 5-9

Core Courses
Number and Title Credits
ACCT 1050—Practical Accounting 3
or
ACCT 2010—Accounting I4
AGEC 1010—Agricultural Economics I 3
AGEC 2010—Farm and Ranch Business
Records3
AGEC 2020—Farm and Ranch Business
Management (Capstone Course)4
AGEC 2300—Agricultural Marketing 3
AGRI 1010—Computers in Agriculture 2
Agroecology/Agronomy Elective3

General Electives selected in

Number and Title

consultation with advisor14-17

Transfer and General Electives

AECL 2010-Ecological Web: Soil 4 CHEM 2300—Introduction to Organic

STAT 2050—Fundamentals of Statistics..... 3

MINIMUM CREDITS FOR DEGREE = 64

Farm and Ranch

Management

The Farm and Ranch Program provides

marketable, entry-level skills in manage-

ment for positions in agriculture-related

business and industry. Students obtain

a foundational knowledge of plant and

knowledge and skills. Graduates of this

job market in businesses which process

and market agriculture commodities or

businesses which sell goods and services

to a farm or ranch enterprise will also

to producers. Students planning to return

find this program useful. The selection of

core courses with a "C-" or better to meet

ASSOCIATE OF APPLIED SCIENCE

General Education Requirements

Requirements on pages 30-38.....20-23

Students should refer to the Graduation

Credits

FARM AND RANCH MANAGE-

program requirements.

MENT

Number and Title

electives allows students to pursue their areas of interest. Students must complete

animal sciences to augment business

program enter the rapidly expanding

Chemistry4 CROP 2200—Forage Crop Science................................ 3

Animal Science Elective	3
BADM 2010—Business Law	3
or	_
BADM 2100—Small Business Practices or	3
MKT 1000—Sales	3
TOTAL 27-2	28
General Electives selected in	
consultation with advisor7-1	0

MINIMUM CREDITS FOR DEGREE = 64

Production Agriculture

The Production Agriculture Program is designed to provide marketable, entrylevel training in management of production agriculture enterprises. The program stresses the applied aspects of crop and livestock production, as well as business management. Students acquire necessary background in marketing, finance, management, range science, animal science, and crop and soil sciences. The program includes the flexibility for students to develop greater expertise in their particular area of interest. Some courses in this AAS program will transfer to four-year institutions.

ASSOCIATE OF APPLIED SCIENCE PRODUCTION AGRICULTURE

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation	on
Requirements on pages 30-38	20-23

Core Courses

Number and Title Cre	dits
AGEC 1010—Agricultural Economics I	3
AGEC 2010—Farm and Ranch Business	
Records	3
AGEC 2020—Farm and Ranch Business	
Management (Capstone Course)	4
AGRI 1010—Computers in Agriculture	2
Agroecology Electives	8
(select from any courses with the follow	ing
designators: AECL, CROP, RGMG)	
Animal Science Electives	8
(select from any courses with the follow	ing
designators: ANSC, FDSC)	_
TOTAL	. 28

Recommended Electives

Number and Title	Credits
Agriculture Electives selected in consu	ıltation
with advisor from any courses with the	e
following designators: AECL, AGEC	, ANSC,
CROP, FDSC, RGMG,	15

MINIMUM CREDITS FOR DEGREE = 64

NORTHWEST COLLEGE COMPREHENSIVE SKILLS CERTIFICATE PRODUCTION AGRICULTURE

Number and Title Credits
AGEC 1010—Agricultural Economics I 3
or
AGEC 1020—Agricultural Economics II 3
AGEC 2010—Farm and Ranch Business
Records3
AGEC 2020—Farm and Ranch Business
Management (Capstone Course)4
AGEC 2300—Agricultural Marketing 3
AGRI 1010—Computers in Agriculture 2
Animal Science elective4
Agroecology4
(select from any courses with the following
designators: AECL, CROP, RGMG)
BADM 1005—Business Mathematics or
equivalent3
CO/M 1010—Public Speaking3
or
ENGL Freshman English3
Electives4
TOTAL 32

TOTAL CREDITS FOR CERTIFICATE = 32

Range Management

The Range Management program is designed for transfer to range science, rangeland ecology, or renewable resource programs. It includes courses in applied plant, soil, and animal sciences. Graduates find positions in land management, range livestock management, and wildlife management. Students must successfully complete core courses with a "C-" or better to meet program requirements. Students planning to transfer to a fouryear program may need to have additional hours beyond the program requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

ASSOCIATE OF SCIENCE RANGE MANAGEMENT

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation	ı
Requirements on pages 30-38	31-37

Eleven credits of General Education may be fulfilled by taking Core Courses or Core Electives.

Core Courses

Number and Title	Credits
AECL 1000—Agroecology	4
AECL 2010—Ecological Web: Soil	4
AECL 2395—Plant Science Research	Methods
(Capstone Course)	2
RGMG 1000—Introduction to Range	•
Management	1
RGMG 2000—Principles of Range	
Management	3
RGMG 2490—Rangeland Plant	
Identification	2
TC	TAL 16

Core Electives

Students must take two courses from the following list of approved courses.

Number and Title	Credits
AGEC 1010—Agricultural Economi	cs I 3
AGRI 1010—Computers in Agricult	ure2
ANSC 1022—Animal Science I	4
ANSC 1024—Animal Science II	4
ENTO 1001—Insect Biology	4
TC	OTAL 5-8
General Electives selected in	
consultation with advisor	13-18

Transfer and General Electives

Number and Title	Credits
BIOL 2400—Ecology	3
BOT 2050—Taxonomy of Flowering	Plants 4
BOT 2100—Forest Management	3
CHEM 1000—Introduction to Chem	nistry5
STAT 2050—Fundamentals of Statis	tics 3

MINIMUM CREDITS FOR DEGREE = 64

Veterinary Assistant

This program provides the knowledge and animal handling skills required to be an integral team player within veterinary practices, research facilities, or other animal-related facilities. Students will learn to recognize behavioral signs and to care for a patient's basic needs under the direction of the veterinarian or designate. In addition, students will learn veterinary practice management skills including cleaning facilities and equipment, booking appointments, communicating with clients, and other receptionist duties. Students become skilled in the care and handling of small and large animals, as well as office management.

ASSOCIATE OF APPLIED SCIENCE VETERINARY ASSISTANT

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation	on
Requirements on pages 30-38	20-23

Core Courses

Number and Title (Credits
ANSC 1022—Animal Science I	4
ANSC 1024—Animal Science II	4
ANSC 1330—Veterinary Practice	
Orientation	3
ANSC 1980—Cooperative Education	
(clinical experience)	3
ANSC 2020—Livestock Feeds and Fee	ding.4
or	
EQST 1510—Equine Nutrition	2
ANSC 2320—Livestock Health	
Management	2
ANSC 2385—Veterinary Assistant Cap	stone
(Capstone Course)	1
ANSC 2430—Comparative Anatomy a	nd
Physiology of Domestic Animals	4
ANSC 2970—Animal Care Internship	
(clinical experience)	3
TOTAL	

Recommended Electives

Students are encouraged to gain additional work experience through the summer months at a veterinary practice in their home area. Additional courses may be selected from animal science, equine science or business.

MINIMUM CREDITS FOR DEGREE = 64

Accounting or Business – Transfer

The Business Department offers a twoyear transfer program for students seeking a baccalaureate degree in the areas of Accounting, Business Administration, Finance, Management, Marketing, Personnel Administration or Business Information Systems. A degree in Business is a popular choice for students planning to attend law school as well. This program provides students an opportunity to acquire core requirements for the study of Accounting or any field in Business with coursework that is a common base for advanced study. The curriculum below offers students an opportunity to build a solid foundation for further study in any of these programs.

Students should work closely with their Business Department advisor to design a transfer program that meets NWC graduation requirements described below and prepares them for successful transfer. Students must consult closely with their academic advisor in the Business Department to determine which general education elective courses (social science, humanities, visual and performing arts, and lab science) will satisfy specific requirements of their intended transfer college or university. Most four-year institutions have prescribed requirements for admission to junior-level, upperdivision status in the respective business programs. Note: Not all business courses offered at NWC are designed for transfer. Please consult with your academic advisor before selecting courses. Students will be required to complete each core course with a "C-" or better to meet program requirements.

Accounting or Business Administration

This program provides students who wish to concentrate in the study of Accounting or Business Administration with coursework that is a common base for advanced study and/or careers in business. Students who study in this area typically seek degrees at senior institutions in the fields of accounting, finance, management, marketing and personnel administration among others. A degree in business is a popular choice for students planning to attend law school upon graduation. Northwest College's Business Department offers students an opportunity to build a solid foundation for further study in these programs.

Students planning to enter careers in business through advanced study at a four-year institution will need to have coursework beyond the program requirements at Northwest College.

Students must consult closely with their academic advisor in the Business Department to determine which general education elective courses (social science, humanities, visual and performing arts, and lab science) will satisfy specific requirements of their intended transfer college or university. Most four-year institutions have prescribed requirements for admission to junior-level, upperdivision status in their respective business programs. Note: Not all business courses offered at NWC are designed for transfer. Please consult with your academic advisor before selecting courses. Students will be required to complete each core course with a "C-" or better to meet program requirements.

ASSOCIATE OF SCIENCE ACCOUNTING or BUSINESS ADMINISTRATION

General Education Requirements

Number and Title	Credits
Students should refer to the Graduati	on
Requirements on pages 30-38	31-37

Six credits of Social Science and seven to nine credits of Mathematics may be fulfilled by taking Core Courses.

Core Courses

Number and Title	Credits
ACCT 2010—Principles of Accounting	ng I 4
ACCT 2020—Principles of Accounting	ng II
(Capstone Course)	4
ECON 1010—Macroeconomics	3
ECON 1020—Microeconomics	3
MATH 1050—Finite Mathematics	3
or	
MATH 2350—Business Calculus	5
STAT 2010—Statistical Concepts for	
Business	4
TOTA	L 21-23

consultation with advisor.....14-20 Recommended Transfer

Transfer and General Electives selected in

and General Electives

Number and Title Credits

ACCT 2410—Intermediate Accounting I 3

BADM 1000—Introduction to Business	3
BADM 1020—Business Communication	3
BADM 2010—Business Law	3
BMIS 2000—Computer Information	
Systems	3
BUSN 2000—Introduction to International	
Business	3
CO/M 1010—Public Speaking	3
IMGT 2400—Introduction to Information	
Management	3
MGT 2100—Principles of Management	3
MKT 2100—Principles of Marketing	3

MINIMUM CREDITS FOR DEGREE = 64

Business - Two Year

This Business Program prepares students for entry-level positions in business. It emphasizes writing, speaking, and problem-solving skills and provides students with the general education and business coursework favored by many employers. Most required coursework is transferable should the student decide to pursue a bachelor's degree. The program offers an internship, where students work part time in professional positions to gain experience and ease the transition from school to career. Students will be required to complete each core course with a "C-" or better to meet program requirements.

ASSOCIATE OF APPLIED SCIENCE BUSINESS

General Education Requirements

Number and Title Credits
BADM 1005—Business Mathematics 3
or
MATH Any College-Level Mathematics3-5
BADM 1020—Business Communication 3
CO/M 1010—Public Speaking 3
ECON 1010—Macroeconomics3
or
ECON 1020—Microeconomics3
ENGL 1010—English I: Introduction to
Composition3
POLS 1000—American and Wyoming
Government3
or
HIST 1221—The United States From 1865.3
or
HIST 1210—United States History I 3
and
HIST 1250—History of Wyoming3
Wellness Education2
TOTAL 20-22

Core Courses

Number and Title	Credits
ACCT 1050—Practical Accounting	3
or	
ACCT 2010—Principles of Accounti	ng I 4
BADM 1000—Introduction to Busin	ess 3
BADM 2010—Business Law	3
BADM 2030—Business Ethics	3
BMIS 2000—Computer Information	
Systems	3
MGT 2100—Principles of Managem	ent 3
MKT 2100—Principles of Marketing	;3
BADM 2100—Small Business Practic	ces3
BADM 2395—Capstone in Business	
(Capstone Course)	1

TOTAL 25-26

Recommended Electives

Number and Title	Credits
General Electives selected in consultar	tion
with advisor, 12 credits of which must	be
business courses	18-21

MINIMUM CREDITS FOR DEGREE = 64

Business Technology

This degree prepares students for careers in the computer information systems field with three options. Each option allows students to develop entry level skills needed for employment. The Network Technician option emphasizes the hardware, network, and programming component, while the Help Desk Specialist option focuses on user support and training for the computerized office. The Administrative Assistant option is designed to reflect current needs in business offices and includes software applications and Microsoft Office Specialist certification preparation.

ASSOCIATE OF APPLIED SCIENCE ADMINISTRATIVE ASSISTANT OPTION

General Education Requirements

Number and Title Credits
BADM 1005—Business Mathematics3
BADM 1020—Business Communications 3
CO/M 1010—Public Speaking3
or
CO/M 1030—Interpersonal Communication3
ENGL 1010—English I: Introduction to
Composition3
POLS 1000—American and Wyoming
Government3
or
HIST 1221—The United States from 18653

Science/Social Science/Visual & Performing	BADM 1020—Business Communication 3	MATH—Any College-Level M	
Arts3	or	CO/M 1010—Public Speaking.	
Wellness Education	ENGL 2010—Technical Report Writing3	ENGL 1010—English I: Introd	
TOTAL 20	POLS 1000—American and Wyoming	Composition	
0 0	Government3	BADM 1020—Business Comm	unication3
Core Courses	or	or	****
Number and Title Credits	HIST 1221—The United States from 18653	ENGL 2010—Technical Repor	_
ACCT 1050—Practical Accounting	Science/Social Science/Visual & Performing	POLS 1000—American and W	_
or	Arts3	Government	3
ACCT 2010—Principles of Accounting I 4	Wellness Education	or	
ACCT 2110—Microcomputer Accounting 2	TOTAL 20-22	HIST 1221—The United States	
BADM 1000—Introduction to Business 3		Science/Social Science/Visual &	U
BMIS 2000—Computer Information	Core Courses	Arts	
Systems	Number and Title Credit	Wellness Education	
BOTK 2750—Records and Information	BMIS 2000—Computer Information	,	TOTAL 20-2
Management1	Systems	C C	
BOTK 2950—Employment Orientation 1	CMAP 1615—Operating Systems3	Core Courses	
CMAP 1715—Word Processing:2	CMAP 1715—Word Processing:2	Number and Title	Credits
CMAP 1765—Spreadsheet Applications:2	CMAP 1765—Spreadsheet Applications: 2	BMIS 2000—Computer Inform	ation Systems3
CMAP 1815—Database Applications: 2	CMAP 1815—Database Applications: 2	CMAP 1615—Operating System	•
CMAP 1850—Desktop Publishing	CMAP 1920—Computer Hardware	CMAP 1920—Computer Hard	
CMAP 2630—Presentation Graphics:2	Maintenance	Maintenance	
MGT 1000—Introduction to Supervision 3	CMAP 1930—LAN Wiring and Network	CMAP 1930—Wiring and Net	
BADM 2395—Capstone in Business	Technology3	Technology	
(Capstone Course)1	CMAP 1950—LAN Services and Support3	CMAP 1940—LAN Server Inst	
TOTAL 28-29	CMAP 2540—Introduction to Help Desk	Configuration	
101/11.28 27	Management (Capstone Course)2	CMAP 1950—LAN Services ar	
General Electives selected in	CMAP 2730—Hardening the Infrastructure 3	CMAP 2575—Wireless Networ	* *
	CMAP 2740—Network Defense and	Administration	
consultation with advisorUp to 16		CMAP 2720—Systems Manage	
	Countermeasure	(Capstone Course)	
Recommended Electives	CMAP 2825—Help Desk Fundamentals 4 CMAP 2840—Network Documentation 2	CMAP 2730—Hardening the Is	
N11T:41		CMAP 2740—Network Defens	
Number and Title Credits	CMAP 2970—Internship:	Countermeasure	
BADM 2010—Business Law	GRAR 1800—Introduction to Macintosh 3 TOTAL 39	CMAP 2970—Internship:	
BADM 2100—Small Business Practices 3		INET 2010—Database Driven	
BOTK 1500—Ten-Key Mastery	General Electives selected in		TOTAL 34-3
BOTK 2510—Legal Terminology	consultation with advisorUp to 9		101111134 3
BOTK 2600—Medical Transcription3	Recommended Electives	General Electives selected in	
BOTK 2620—Medical Coding	Recommended Liectives	consultation with advisor	Up to 7
BOTK 2970—Internship:	Number and Title Credits		•
BUSN 2000—Introduction to International	ACCT 1050—Practical Accounting 3	Recommended Elec	tives
Business 3	ACCT 2010—Principles of Accounting I 4		
CMAP 1680—Microcomputer Applications:	ACCT 2110—Microcomputer Accounting 2	Number and Title	Credit
1-3	BADM 2030—Business Ethics2	ACCT 1050—Practical Accoun	-
CMAP 1920—Computer Hardware	BADM 2100—Small Business Practices 3	ACCT 2010—Principles of Acc	
Maintenance 3	BIOL 2310—Introduction to Geographic	ACCT 2110—Microcomputer	
CMAP 2900—Advanced Integrated Computer	Information Systems3	BADM 2030—Business Ethics.	
Applications	BOTK 2950—Employment Orientation 1	BADM 2100—Small Business I	
GRAR 1800—Introduction to Macintosh3	CMAP 1850—Desktop Publishing I:3	BOTK 2950—Employment Ori	
MINIMUM CREDITS FOR DEGREE = 64	JOUR 1020—Webcasting Practicum I1-2	CMAP 1715—Word Processing	
	MGT 1000—Introduction to Supervision 3	CMAP 1765—Spreadsheet App	
	PHTO 2650—Digital Imaging I3	CMAP 1815—Database Applic	
ASSOCIATE OF APPLIED SCIENCE	PHTO 2660—Web Page Design3	CMAP 1850—Desktop Publish	0
HELP DESK SPECIALIST OPTION		CMAP 1910—Integrated Appli	
	MINIMUM CREDITS FOR DEGREE = 64	COSC 1010—Introduction to C	-
General Education Requirements		Science	
-	ASSOCIATE OF APPLIED SCIENCE	COSC 2030—Computer Science	
Number and Title Credits	NETWORK TECHNICIAN OPTION	GRAR 1800—Introduction to I	
BADM 1005—Business Mathematics3	,, c.m zo.m.c.m. or . lon	JOUR 1020—Webcasting Pract	
or	General Education Requirements	MGT 1000—Introduction to Su	
MATH—Any College-Level Mathematics3-5	•	PHTO 2650—Digital Imaging	
CO/M 1010—Public Speaking	Number and Title Credits	PHTO 2660—Web Page Desig	n3
ENGL 1010—English I: Introduction to	BADM 1005—Business Mathematics3		
Composition3	or	MINIMUM CREDITS FOR DE	GREE = 64

NORTHWEST COLLEGE SKILLS CERTIFICATE HELP DESK

This certificate program is designed to develop advanced skills in software use, problem solving, telephone support and outcome tracking, and written and oral communication. These skills are used to provide a high level of service and support to customers—whether they are internal or external.

General Education Requirements

Number and Title	Credits
CO/M 1030—Interpersonal Commun	nication3
ENGL 1010—English I: Introduction	ı to
Composition	3

Core Courses

Number and Title	Credit
BMIS 2000—Computer Information Sy	stems 3
CMAP 1715—Word Processing:	2
CMAP 1765—Spreadsheet Application	ns: 2
CMAP 2540—Introduction to Help D	esk
Management	2
CMAP 2825—Help Desk Fundamenta	als 4
CMAP 2970—Internship:	2
MGT 1000—Introduction to Supervision	3

TOTAL CREDITS FOR CERTIFICATE = 24

NORTHWEST COLLEGE COMPREHENSIVE SKILLS CERTIFICATE BUSINESS TECHNOLOGY-GENERAL OFFICE/CLERICAL SKILLS

This certificate program is designed to provide students with the basic secretarial skills needed in a general office setting. It also provides foundation courses for students who wish to continue their office career preparation in a two-year Business Technology Administrative Assistant degree option at Northwest.

Number and Title Credits
ACCT 1050—Practical Accounting3
or
ACCT 2010—Principles of Accounting I 4
ACCT 2110—Microcomputer Accounting 2
BADM 1000—Introduction to Business 3
BADM 1005—Business Mathematics3
BADM 1020—Business Communication 3
BMIS 2000—Computer Information
Systems
BOTK 2750—Records and Information
Management1
BOTK 2950—Employment Orientation 1
CMAP 1715—Word Processing:2

ENGL 1010—English I: Introduction to
Composition3
Electives selected in consultation with advisor
2 of which must be selected from the following
designators: ACCT, BADM, BOTK, CMAP
Up to 9
TOTAL 32-34

TOTAL CREDITS FOR CERTIFICATE = 32-34

NORTHWEST COLLEGE SKILLS CERTIFICATE WORD PROCESSING

This certificate program is designed to develop and recognize advanced skill in word processing using a microcomputer and a currently popular word processing software package.

Number and Title	Credits
BMIS 2000—Computer Information	
Systems	3
CMAP 1715—Word Processing:	2
CMAP 1850—Desktop Publishing I:	3
CMAP 2630—Presentation Graphics	:2
TO	TAL 10

TOTAL CREDITS FOR CERTIFICATE = 10

Travel and Tourism

This degree trains students to work in entry-level management jobs in a variety of travel and tourism industries. The program concentrates on polishing various generalized entrepreneurial skills, including writing, organizing, and quantitative analysis. Specific skills relevant to the travel and tourism industry are cultivated through classroom and actual practical experiences.

ASSOCIATE OF APPLIED SCIENCE TRAVEL AND TOURISM

General Education Requirements

Number and Title Credits
BADM 1005—Business Mathematics3
or
MATH—Any College-Level Mathematics 3-5
BADM 1020—Business Communication3
CO/M 1030—Interpersonal Communication3
ENGL 1010—English I: Introduction to
Composition3
POLS 1000—American and Wyoming
Government3
or
HIST 1221—The United States from 18653
or
HIST 1210—United States History I 3

TOTAL 16-23
Wyoming
GEOL 1030—Geology of Northern
or
National Park1
GEOL 1035—Geology of Yellowstone
HIST 1250—History of Wyoming3
and

Core Courses

Number and Title Credits
ACCT 1050—Practical Accounting3
or
ACCT 2010—Principles of Accounting I 4
BADM 1050—Introduction to Travel and
Tourism
BADM 1400—Introduction to Hospitality 3
BADM 2010—Business Law3
BADM 2395—Capstone in Business
(Capstone Course)1
BADM 2970—Internship/Practicum Travel
and Tourism:1-6
BMIS 2000—Computer Information Systems 3
MGT 2100—Principles of Management 3
MKT 2100—Principles of Marketing3
TOTAL 23-29

Recommended Electives

consultation with advisor......Up to 8

General Electives selected in

Number and Title Credits	s
ACCT 2110—Microcomputer Accounting 2	2
BADM 2030—Business Ethics3	3
BUSN 2000—Introduction to International	
Business3	3
CMAP 1890—World Wide Web Authoring1	l
ECON 1020—Microeconomics3	3
G&R 1250—Geography of Travel and	
Tourism3	3

MINIMUM CREDITS FOR DEGREE = 64

Equine Studies

Growth of the equine industry in the United States has created a demand for qualified personnel in all of its related fields. The associate degree program in equine studies is intended to provide basic, practical, and theoretical grounds from which students may directly enter their fields of interest.

This two-year program has two degrees that emphasize a practical approach. The Equine Riding and Training degree assists students in learning riding, training, and horse handling skills, in addition to related management concepts. Students must make arrangements to

have a horse to use for in and out of class work. (It is not mandatory for the student to supply a horse for training, but all students are strongly urged to do so.) Students completing the program may find employment in riding academies, training stables, summer camps, and feed or saddlery companies.

The Equine Business Management degree is designed for those who would like to be involved in the sales and merchandising aspects of the equine industry. Students need not have a horse to pursue this exciting career field.

Students taking classes that require horses are encouraged to bring their own horse with them to campus. The college does not own horses for student use. Students wanting to enroll in a riding class must fill out an Equine Studies Application and provide a riding video in order to be placed in a riding class and house a horse on campus. Students housing horses at NWC Equine Center must be enrolled in the appropriate Horse and Stall Care class and a riding class.

The associate of applied science degree has been designed to meet the sophisticated demands of today's market.

ASSOCIATE OF APPLIED SCIENCE **EQUINE RIDING AND TRAINING**

General Education Requirements

Number and Title	Credits
Students should refer to the Gradua	tion
Requirements on pages 30-38	20-23

Core Courses

Number and Title C	redits
ANSC 2430—Comparative Anatomy/	
Physiology of Domestic Animals	4
EQST 1510—Equine Nutrition	2
or	
ANSC 2020—Feeds and Feeding	4
EQST 1520—Horse Production I	3
EQST 1525—Horse Production II	3
EQST 1540—Applied Horse and Stall	
Care I	1
EQST 1545—Applied Horse and Stall	
Care II	1
EQST 1550—Equine Evaluation I	2
EQST 1680—Horse Handling and Beha	avior2
EQST 1805—Farrier Science I	2
EQST 2520—Equine Breeding	3
EQST 2540—Applied Horse and Stall	
Care III	1

EQST 2545—Applied Horse and Stall
Care IV1
EQST 2680—Western Horsemanship 3
EQST 2690—Hunt Seat Equitation3
EQST 2800—Fundamentals of Teaching
Riding3
EQST 2810—Training and Development of
the Western Horse I3
or
EQST 2830—Training and Development of
the English Horse I3
EQST 2820—Training and Development of
the Western Horse II (Capstone Course). 3
or
EQST 2840—Training and Development of
the English Horse II (Capstone Course)3
TOTAL 40-42
General Electives selected in
Othera Electron selected in
consultation with advisor6
MINIMUM CREDITS FOR DEGREE = 64
ASSOCIATE OF APPLIED SCIENCE
EQUINE BUSINESS MANAGEMENT
EQUITE BOSINESS FIANAGEFIER
General Education Requirements
Number and Title Credits

Number and Title	Credits
Students should refer to the Graduation	on
Requirements on pages 30-38	20-23

Core Courses

Number and Title Credits
ACCT 2010—Principles of Accounting I 4
AGEC 2010—Farm and Ranch Business
Records3
AGRI 1010—Computers in Agriculture 2 or
BMIS 2000—Computer Information Systems 3
BADM 2010—Business Law3
BADM 2100—Small Business Practices 3
ECON 1010—Macroeconomics
or
ECON 1020—Microeconomics3
or
AGEC 1010—Agriculture Economics I 3
or
AGEC 1020—Agriculture Economics II 3
EQST 1510—Equine Nutrition
ANSC 2020—Feeds and Feeding
EQST 1520—Horse Production I
EQST 1525—Horse Production II
EQST 1550—Equine Evaluation I2
or
EQST 2520—Equine Breeding3
or
EQST 2680—Western Horsemanship 3
EQST 2690—Hunt Seat Equitation3
MKT 1000—Sales
or
MKT 2100—Principles of Marketing3
MGT 2100—Principles of Management 3

EQST 2515—Horse Show/	Clinic/Event
Management	2
•	TOTAL 41-42
Capstone course selected in	
consultation with advisor	1-3

MINIMUM CREDITS FOR DEGREE = 64

ASSOCIATE OF APPLIED SCIENCE FARRIER BUSINESS MANAGE-MENT

The Farrier Business Management Program prepares students with needed skills in both farrier science and business. Students develop practical accounting, business technology, and management skills. Students also acquire background in equine anatomy and physiology, gait and lameness problems, approaches to equine balance, and the ways conformation relates to soundness and movement. Classroom time is complimented with significant time at the forge. Horses are provided so students have ample handson experience. Students become skilled in making corrective and therapeutic shoes as well as in doing more standard shoeing.

General Education Requirements

Number and Title	Credits
Students should refer to the Graduat	tion
Requirements on pages 30-38	20-23

Core Courses

Number and Title	Credits
ACCT 1050—Practical Accounting	3
AGEC 2020—Farm and Ranch Busin	
Management (Capstone Course)	4
AGRI 1010—Computers in Agricultu	ıre2
BADM 2100—Small Business Practic	ces3
EQST 1520—Horse Production I	3
EQST 1550—Equine Evaluation I	2
EQST 1680—Horse Handling and B	ehavior2
EQST 1805—Farrier Science I	2
EQST 1810—Farrier Science II	3
EQST 1815—Production Shoeing I	3
EQST 1820—Production Shoeing II.	3
EQST 1825—Production Shoeing III	I3
EQST 1830—Production Shoeing IV	·3
EQST 1850—Blacksmithing I	2
WELD 1600—General Arc Welding	2-3
TOTA	AL 40-41
General Electives selected in	
consultation with advisor	7-9

MINIMUM CREDITS FOR DEGREE = 64

NORTHWEST COLLEGE SKILLS CERTIFICATE EQUINE CARE AND BASIC TRAINING

This program of courses is designed to promote quality care of the horse and give the student basic riding and occupational skills. In their coursework students will cover equine safety, health management, nutrition, equine behavior, tack fitting and basic horse safety. Students will be prepared for jobs such as boarding stables operator, riding stable help, wrangler, trail ride guide, groom, equine salesperson, breeding farm operator, and farm sitter.

Core Courses

Number and Title	Credits
EQST 1510—Equine Nutrition	2
EQST 1520—Horse Production I	3
EQST 1525—Horse Production II	3
EQST 2500—Equine Health Manage	ement.2
or	
ANSC 2020—Feeds and Feeding	4
EQST 1505—Basic Horsemanship	1
EQST 1550—Equine Evaluation	2
EQST 1645—Tack, Fit and Function	3
EQST 1680—Horse Handling and Bo	ehavior2
TOTA	L 18-20

Recommended Electives

EQST 1540—Applied Horse and Stall Care I	1
EQST 1805—Farrier Science I	. 2
EQST 1850—Blacksmithing I	. 2
EQST 2550—Training the Young Horse I	. 2
EQST 2520—Equine Breeding	. 3
EQST 2690—Hunt Seat Equitation	. 3
EQST 2680—Western Horsemanship	. 3

TOTAL CREDITS FOR CERTIFICATE = 18-20

NORTHWEST COLLEGE SKILLS CERTIFICATE OUTDOOR GUIDE SKILLS

Through an intense course students will gain practical experience in camp construction and management, horse and mule packing, big game guiding, livestock care and handling, basic horsemanship, backcountry survival and first aid, weapons safety, food preparation, and effective customer relations and service. The objective is to expose students to the best possible instruction and direction in becoming an advanced outdoors person or a part of the outdoor recreation industry and to provide the outdoor recreation industry with the most prepared, skilled

and professional guides and outfitters in the industry.

Number and Title	Credits
EQST 2665—Outdoor Guide Skills.	7

TOTAL CREDITS FOR CERTIFICATE = 7

Technical Education

Students interested in entering the field of technical education will develop an individual course of study in cooperation with a technical education advisor and an education advisor. (See the suggested education programs of study in the Social Science and Education Division section of this catalog.)

Welding Technology

The Welding Technology Program is designed to give the student a solid background in the latest techniques, procedures, and welding processes. Students are encouraged to complete the two-year program, although a Northwest College certificate (60 credits, see page 38) is an available option, in addition to Northwest College skills certificate options.

ASSOCIATE OF APPLIED SCIENCE WELDING TECHNOLOGY

Core Courses

Number and Title C	redits
ENGL—Freshman Level English	3
BADM 1020—Business Communicatio	n3
MATH 1510—Technical Mathematics	I (or
equivalent)	3
POLS 1000—American and Wyoming	
Government	3
or	
HIST 1210—United States History I	3
and	
HIST 1250—History of Wyoming	3
WELD 1555—Welding Technology Sa	fety
and Problem Solving	2
WELD 1650—Print Reading	3
WELD 1705—Welding Processes	4
WELD 1765—Advanced Welding Proc	esses4
WELD 1800—Materials Evaluation	3
WELD 1860—Welding Fabrication	4
WELD 1870—Advanced Metal Fabrica	ation
Techniques	4
WELD 2670—Welding Inspection	
Technology	3
WELD 2680—Welding Metallurgy	

	TOTAL 69-72
	Electives3
(c	General Education Requirements6
	Wellness Education
	(Capstone Course)4
	WELD 2985—Welding Seminar
	WELD 2750—Metals Production4
	WELD 2710—Welding Certification (Pipe) 4
	WELD 2700—Welding Certification (Plate)4

TOTAL CREDITS FOR DEGREE = 69-72

* Students should refer to the Graduation Requirements on pages 30–38.

NORTHWEST COLLEGE COMPREHENSIVE SKILLS CERTIFICATE WELDING TECHNOLOGY

Number and Title Credits
MATH 1510—Technical Mathematics I (or
equivalent)3
WELD 1555—Welding Technology Safety
and Problem Solving2
WELD 1650—Print Reading3
WELD 1705—Welding Processes4
WELD 1765—Advanced Welding Processes4
WELD 1800—Materials Evaluation 3
WELD 1860—Welding Fabrication 4
WELD 1870—Advanced Metal Fabrication
Techniques4
WELD 2750—Metals Production4
Elective3
TOTAL 34

TOTAL CREDITS FOR CERTIFICATE = 34

NORTHWEST COLLEGE SKILLS CERTIFICATE GMAW WELDING

This certificate is designed for students to develop the knowledge and skills necessary for GMAW Welding.

Core Courses

Number and Title Credits
MATH 1510—Technical Mathematics I 3
WELD 1555—Welding Technology Safety
and Problem Solving2
WELD 1650—Print Reading3
WELD 1700—General Welding3
WELD 1770—GMAW - FCAW 4
WELD 1860—Welding Fabrication 4
WELD 1870—Advanced Metal Fabrication
Techniques4
WELD 2750—Metals Production4
TOTAL 27
Flective

Elective

Any other (3 credit or more) Welding class...3

TOTAL CREDITS FOR CERTIFICATE = 30

NORTHWEST COLLEGE SKILLS CERTIFICATE GTAW WELDING

This certificate is designed for students to develop the knowledge and skills necessary for GTAW Welding.

Core Courses

Number and Title Cree	dits
MATH 1510—Technical Mathematics I	3
WELD 1555—Welding Technology Safet	y
Problem Solving	2
WELD 1650—Print Reading	3
WELD 1700—General Welding	3
WELD 1785—GTAW Welding	4
WELD 1860—Welding Fabrication	4
WELD 1870—Advanced Metal Fabrication	n
Techniques	4
WELD 2750—Metals Production	4
TOTAL	. 27

Elective

Any other (3 credit or more) Welding class... 3

TOTAL CREDITS FOR CERTIFICATE = 30

NORTHWEST COLLEGE SKILLS CERTIFICATE ROBOTICS TECHNOLOGY

Students who complete this certification program will acquire advanced skills that are necessary in the planning, setup, operation, and safety requirements of using a Computer Numeric Controlled (CNC) plasma cutting machine.

Core Courses

edits
3
y
2
4
ses 4
4
on
4
4

TOTAL CREDITS FOR CERTIFICATE = 25